

#16.

Hawaiian Explorations.

Dr. 4052-4060.

Hy. 4517-4557.

July 14th - 17th, 1902.

2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

507.
 Hutchinson
 No. 52 4051 Date July 14, 1902.
 dredge Machine #1 Reel. Party.
 Turns 133 Cor. + 23 Depth 256 fms
 Shot or lead 36 lbs.
 Bottom for lava, or S. R.
 Bottom temperature 46°
 No. of thermometer 92442 Cor.
 Corrected temperature
 Air 84 Surface 79 Drift $\frac{6}{18}$ N 14° E, 1/10
 Trawl or dredge $\frac{1}{2}$ Blake with Apron

SOUNDING WIRE.		TURNS	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
7. 16.40	22.05	0	7. 20.20	43 =
17.40	30.55	100	24.20	40.05
18.35	19.45	200	27.50	37 =
19 =	19.25	300	31.20	33.35
		315		33 =
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Kealakekua Right, East, 19 $\frac{9}{10}$ °.

OK
1000
13
going on
bottom
20°
17°
15°

2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25	52	Start Sto's		
50	52	4052		
100	54	4517		
200				
300				
400		Blake net =		
500		no catch recorded.		
600				
700				
800				
900				
1000				

REMARKS:

Heavy strain at 300 fms, am. -
mined hearing in immediately
lost 5½ Blake glass float.
apron and net soon
wrecked; fragment only recovered.

507.
Hutchinson

No. 4517 Date July 14-02
Sugshu Machine. # Recl. Navy
Turns 70 Cor. + 7 Depth 77 fms
Shot or lead 36 lbs
Bottom fine, co. s. cov. sp.
Bottom temperature 71.1°
No. of thermometer 92442 Cor.
Corrected temperature

Air 84 Surface 79 Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
9. 14. 20	46.30	0		
45 =	45.25	100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Marks end of
S 4052.

Kealakekua Light, 871° E., $17^{\circ} 10'$.

OK
H.C.P.
H.C.P.

2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

Bailey Oct. 92, 8
 No. 44451.8 Date 1st July 1902
 Sigsbee Machine. Reel. Trawl.
 Turns 470 Cor. + 47 Depth 517 fms
 Shot or lead 69 #7
 Bottom gy S. Lang. Fr
 Bottom temperature 37°
 No. of thermometer 92442 Cor.
 Corrected temperature
 Air 86 Surface 80 Drift
 Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
2.41.30	2.41.20	0		
42.10	50.15	100		
43.00	49.20	200		
43.50	48.20	300		
44.30	47.30	400		
45.20	46.50	470		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Kealakekua Light. ~~South~~ ^{58°} ~~10°~~ North

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

4810

V.V.V

47.0
47.1
47.1

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

P.S. 97.8.

No.

4519

Date 14

July 1902

Machine.

Reel.

Turns 673

Cor. +

67

Depth 740

Shot or lead 60

X

740

Bottom

Lava

Bottom temperature

78 1

No. of thermometer

92 674 2

Cor.

Corrected temperature

Air 84

Surface 80

Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
3.34.30	3.48.01	0		
35.10	47.00	100		
35.15	46.00	200		
36.35	45.00	300		
37.20	44.00	400		
38.10	43.00	500		
39.00	42.00	600		
39.40	41.10	673		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Kealakekua Point, N 1° W., 10 8/10

OK
100.
200.

4810

255

6767
40

2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

P.L. = 90.6

No. 11.4550 Date 11 July 1902
 - Sounding Machine. 1 Reel. No. 1
 Turns 1016 Cor. + 97 Depth 112 fms
 Shot or lead 60 lbs
 Bottom Lava 3 fms
 Bottom temperature 36°.
 No. of thermometer 7 62.35 Cor. + 0.1
 Corrected temperature 36.1
 Air 84°. Surface 80°. Drift
 Trawl or dredge

P.M.	SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
	DOWN.	UP.		DOWN.	UP.
4.08.45	4.29.05		0		
09.30	28.05		100		
10.15	27.10		200		
11.05	26.15		300		
12.00	25.15		400		
12.50	24.20		500		
13.40	23.20		600		
14.30	22.15		700		
15.25	21.15		800		
16.25	20.05		900		
17.20	4.18.50		1000		
4.17.30	-		1016		
			1100		
			1200		
			1300		
			1400		
			1500		
			1600		
			1700		
			1800		
			1900		
			2000		
			2100		
			2200		
			2300		
			2400		

Realakukua Point, N. 5° 3', 12 $\frac{3}{4}$ E.

		2500	
		2600	
		2700	
		2800	
		2900	
		3000	
		3100	
		3200	
		3300	
		3400	
		3500	
		3600	
		3700	
4610	1016	3800	
17994	158	3900	
	1016	4000	
	158		

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. Hy. 4521. Date 16 May 1888.
 Sigehee Machine. / Reel. 71000.
 Turns 669 Cor. + 67 Depth 730 fms.
 Shot or lead 60 lbs.
 Bottom for 99 fms.
 Bottom temperature 35°
 No. of thermometer 98235. Cor. +0.1
 Corrected temperature 38.1
 Air 84°. Surface 80°. Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
5.12.45	5.17.10	0		
12.25	14.30	100		
14.95	23.40	200		
15.55	32.10	300		
15.15	21.40	400		
16.25	20.10	500		
16.15	19.40	600		
5.17.45	5.18.40	660		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Kealakekua Point. N $20^{\circ}30'30''$ E., 17 $\frac{4}{10}'$

4810	355	2500
669	188	2600
7101	27	2700
		2800
		2900
		3000
		3100
		3200
		3300
		3400
		3500
		3600
		3700
		3800
		3900
		4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No.

44.4532. Date

Lat. = 9.8

Caster Machine. / Reel. Nony

Turns. Cor. + 51 Depth 55 fms.

Shot or lead 60 lbs.

Bottom 60 fms. S. S. W.

Bottom temperature 39.5

No. of thermometer 98235. Cor. + 0.1

Corrected temperature 39.6

Air 82° - Surface 79° - Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
6.00.10	6.10.10	0		
00.55	18.00	100		
10.35	15.05	200		
11.25	16.05	300		
12.10	15.10	400		
6.12.00	6.14.05	500		
		525		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

470	57	4/810	255	2500
				2600
				2700
				2800
				2900
				3000
				3100
				3200
				3300
				3400
				3500
				3600
				3700
				3800
				3900
				4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

807. *kit*
 April 4, 1902. No. 4533. Date 14 July '02.
 Sibley Machine & Reel. Trawl
 Turns 592 Cor. + 77 Depth 52 fms.
 Shot or lead 60 lbs.
 Bottom fr. lava
 Bottom temperature 38.1
 No. of thermometer 98235. Cor. + 0.1
 Corrected temperature 38.2
 Air 79°. Surface 78°. Drift
 Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
7.06.45	7.18.40	0		
07.30	17.40	100		
08.15	16.10	200		
09.00	15.25	300		
09.45	14.35	400		
10.45	12.25	500		
7.11.40	7.12.30	500		
		600		
			700	
			800	
			900	
			1000	
			1100	
			1200	
			1300	
			1400	
			1500	
			1600	
			1700	
			1800	
			1900	
			2000	
			2100	
			2200	
			2300	
			2400	

Ka Lae Point, 86° 16' S., 147° 15' E.

59.2	255	2500	
59.2	255	2600	
59.2	255	2700	
59.2	255	2800	
59.2	255	2900	
59.2	255	3000	
59.2	255	3100	
59.2	255	3200	
59.2	255	3300	
59.2	255	3400	
59.2	255	3500	
59.2	255	3600	
59.2	255	3700	
59.2	255	3800	
59.2	255	3900	
59.2	255	4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

P.L. 15.8

No. 4. 4/23 Date 11 Aug 30
 Sights Machine & Reel. Trawl.
 Turns 1056 Cor. + 101 Depth 1157 fms.
 Shot or lead 60 Lbs.
 Bottom for Lava 36
 Bottom temperature 36
 No. of thermometer 98235. Cor. + 0.1
 Corrected temperature 36.1
 Air 79° - Surface 78° - Drift
 Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
51.10	13.35	0		
51.50	12.30	100		
52.00	11.25	200		
53.20	10.35	300		
54.10	09.25	400		
55.10	08.10	500		
56.10	07.00	600		
56.50	06.35	700		
57.50	05.40	800		
58.50	04.40	900		
59.50	02.50	1000		
5-00.30	02.00	1056 1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

		2500
		2600
		2700
		2800
		2900
		3000
		3100
		3200
		3300
		3400
		3500
		3600
118.5	255	3700
105L	154	3800
3754	101	3900
	105L	4000
	1157	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. 872 Date Aug 14 1888

Machine. 1 Reel.

Turns 872 Cor. + 56

Depth 755 fms

Shot or lead 60 lbs

Bottom of Lake 36.5°

Bottom temperature 36.5°

No. of thermometer 98235 Cor. +0.1

Corrected temperature 36.6°

Air 79 Surface 77 Drift

Trawl or dredge

SOUNDING WIRE.

DOWN. UP.

9.15.00 34.90

16.00 33.40

16.50 32.40

17.40 31.40

18.30 30.30

17.20 29.20

20.10 28.20

21.00 27.05

22.40 25.55

23.10 25.00

872

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

1903 45° E. 90'

		2500	
		2600	
		2700	
		2800	
		2900	
		3000	
		3100	
		3200	
		3300	
		3400	
		3500	
		3600	
		3700	
		3800	
		3900	
		4000	
4110 872 3738	355 169 86 872 958		

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

Oct. 27. 8

No. 409 4.36 Date 10/27/88
 Machine Reel
 Turns 950 Cor. + 95 Depth 1075 fms
 Shot or load 60 lbs.
 Bottom fr. 36.1
 Bottom temperature 36.1
 No. of thermometer 75335 Cor. + 0.1
 Corrected temperature 36.2
 Air 79 Surface 77 Drift
 Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
10.43.20	06.05	0		
44.20	05.00	100		
45.20	04=	200		
46.15	02.55	300		
47.15	01.50	400		
48.15	11.00.40	500		
49.15	59.30	600		
50.15	58.20	700		
51.15	57=	800		
52.15	55.35	900		
53.10	54.15	1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

		2500	
		2600	
		2700	
		2800	
		2900	
		3000	
		3100	
		3200	
		3300	
		3400	
		3500	
4510	355	3600	
980	160	3700	
3830	95	3800	
	950	3900	
	1075	4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

P.L. 32.9.

No. 4127 Date 15 May 1902
Sounding Machine. Reel. 1000
Turns 498 Cor. + 050 Depth 1748 fms
Shot or lead 60 K
Bottom 60 fms. 40°
Bottom temperature 40°
No. of thermometer 987.5 Cor. + 0.1
Corrected temperature 40.1
Air 79 Surface 71 Drift
Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
12.7.30	12.27.11	0		
13.2.30	12.9.30	100		
14.1.1	12.7.30	200		
20.1.10	12.6.15	300		
21.1.10	12.5.15	400		
12.22.00	12.23.30	498		
		500		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

63 Custer, S. Dak.
In the Pintail 7/17/1873, 275

	2500
	2600
	2700
	2800
	2900
	3000
	3100
	3200
	3300
	3400
	3500
	3600
	3700
	3800
	3900
	4000

SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS.

P. 21.8

No. 1571 Date.

Machine. Reel.

Turns 1571 Cor. + 139 Depth 1663 fms

Shot or lead 60

Bottom for gear S. 3 fms

Bottom temperature 31.5

No. of thermometer 78231 Cor. + 0.1

Corrected temperature 35.7

Air 79 Surface 76 Drift

Trawl or dredge

SOUNDING WIRE.

TURNS.

DREDGE ROPE.

DOWN.

UP.

DOWN.	UP.	TURNS.	DOWN.	UP.
15.00	22.10	0		
16.00	23.10	100		
17.00	24.10	200		
18.00	25.10	300		
19.00	26.10	400		
20.00	25.20	500		
21.00	24.10	600		
22.00	23.10	700		
23.10	21.10	800		
24.10	19.10	900		
25.10	08.10	1000		
26.10	07.10	1100		
27.10	06.10	1200		
28.10	05.30	1300		
29.10	04.00	1400		
29.50	03.00	1500		
30.00	01.10	1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000

4070	167
1531	117
3251	139
	1525
	1663

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

P.D. 2/2.8

No. 4524

Date 15 July 02

Machine.

Reel.

Turns 1964 Cor. + 170

Depth 2184 fms

Shot or lead 60

Bottom 100 fms

Bottom temperature 55

No. of thermometer 98235

Cor. + 1

Corrected temperature 35.1

Air 70° - Surface -6° - Drift

Trawl or dredge

SOUNDING WIRE.

TURNS.

DREDGE ROPE.

DOWN.

UP.

DOWN.

UP.

3,36.00	4.78.00	0	
	27.25	100	
37.50	26.10	200	
36.50	25.30	300	
35.50	23.55	400	
40.45	22.20	500	
	21.50	600	
	20.45	700	
35.50	19.50	800	
32.00	18.30	900	
46.00	17.15	1000	
41.00	16.00	1100	
40.10	15.80	1200	
41.20	16.00	1300	
50.30	16.11	1400	
51.30	16.30	1500	
52.50	16.50	1600	
54.00	16.50	1700	
55.10	16.10	1800	
56.30	16.10	1900	
57.00	15.90	1964	
		2100	

*) After 4.11.10 the 200 fms register max 676
 A sounder fall and 8800 fms comes up with
 out being 100 fms. 2400.

2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000

4810 26°
1964 9°
2646 17°
164 16°
2134 16°

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

P.L. 528

No. 44. 4520 Date 15 Oct '03.

Sinker Machine. / Reel. 750

Turns 860 Cor. + 85 Depth 947 fms.

Shot or lead 60 Lbs.

Bottom Lava S. For.

Bottom temperature 36.9

No. of thermometer 982.35. Cor. + 0.1

Corrected temperature 37.0

Air 78°. Surface 76°. Drift

Trawl or dredge

S.M. SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
6. 24.15	6. 05.00	0		
25.10	12.5	100		
27.07	42.5	200		
29.00	4.5	300		
29.57	40.5	400		
30.53	40.00	500		
31.70	38.5	600		
32.37	37.50	700		
6. 34.70	6. 26.00	800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

200 fathoms 86° N., 142° 10' E.

2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000

810
860
805°

255
110
85
90
84.5

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

507. 1011

P.L. = 57.8

No. 4. y. 4001. Date 15 July 62.
 Machine. Reel. ~~Plumb~~
 Turns 512 Cor. + 51 Depth 1562 fm.
 Shot or lead 60 lbs.
 Bottom flora 4. 000
 Bottom temperature 39.1
 No. of thermometer 7235. Cor. + 0.1
 Corrected temperature 39.2
 Air 75° - Surface 77° - Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
7. 37.50	7. 40.25	0		
38.05	40.25	100		
39.25	40.25	200		
40.25	40.25	300		
41.15	40.25	400		
7. 42.00	7. 42.00	500		
		512		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

1500 fms. 152° M 1-11

		2500	
		2600	
		2700	
		2800	
		2900	
		3000	
		3100	
		3200	
		3300	
		3400	
		3500	
4810	255	3600	
512		3700	
57		3800	
563		3900	
		4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

O. L. 62.5

No. 77 Date 10/10/07

Sugarree Machine Reel. 2100

Turns 660 Cor. + 66 Depth 726

Shot or load 60 lbs

Bottom for lava

Bottom temperature 36

No. of thermometer 75.545 Cor. + 0.1

Corrected temperature 35.44

Air 74 Surface 77 Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
8- 41.25	55.45	0		
42.15	54.40	100		
43.15	53.40	200		
44.10	52.35	300		
45.10	51.40	400		
46.10	50.40	500		
47.10	49.40	600		
48 =	49.00	700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000

4810

3.5

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

Feb. 6 1888

No. by 4533 Date
 S. Machine Reel. 1000
 Turns 2 Cor. + 3 Depth 691
 Shot or lead 36
 Bottom for gear 300 fath.
 Bottom temperature 39
 No. of thermometer 1 Cor. + 1
 Corrected temperature 39
 Air 77 Surface 77 Drift
 Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
47.10	51.10	0		
47.40	51.40	100		
48.10	50.40	200		
49.10	51.50	300		
50.40	54.00	400		
51.50	53.30	500		
52.10	53.10	526		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

La Jolla Point, Calif. 30° 26.0

2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

P. S.

No. 49 + 534 Date Aug 15th
 Dredge Machine Reel. Heavy.
 Turns 650 Cor. + 65 Depth 71.5 fms
 Shot or lead 35 lbs
 Bottom N.E. S. D. 65-
 Bottom temperature 72.1°
 No. of thermometer 22235 Cor. + 2.1
 Corrected temperature 38.2
 Air 77 Surface 77 Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
10.53.40	11.53.40	0		
54.40	06.10	100		
55.25	05.15	200		
56.10	04.15	300		
57.10	03.10	400		
58.10	02.10	500		
	01.10	600		
59.10	11.33.40	600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

4810	255	2500	
		2600	
		2700	
		2800	
		2900	
		3000	
		3100	
		3200	
		3300	
		3400	
		3500	
		3600	
		3700	
		3800	
		3900	
		4000	

SERIAL TEMPERATURES.

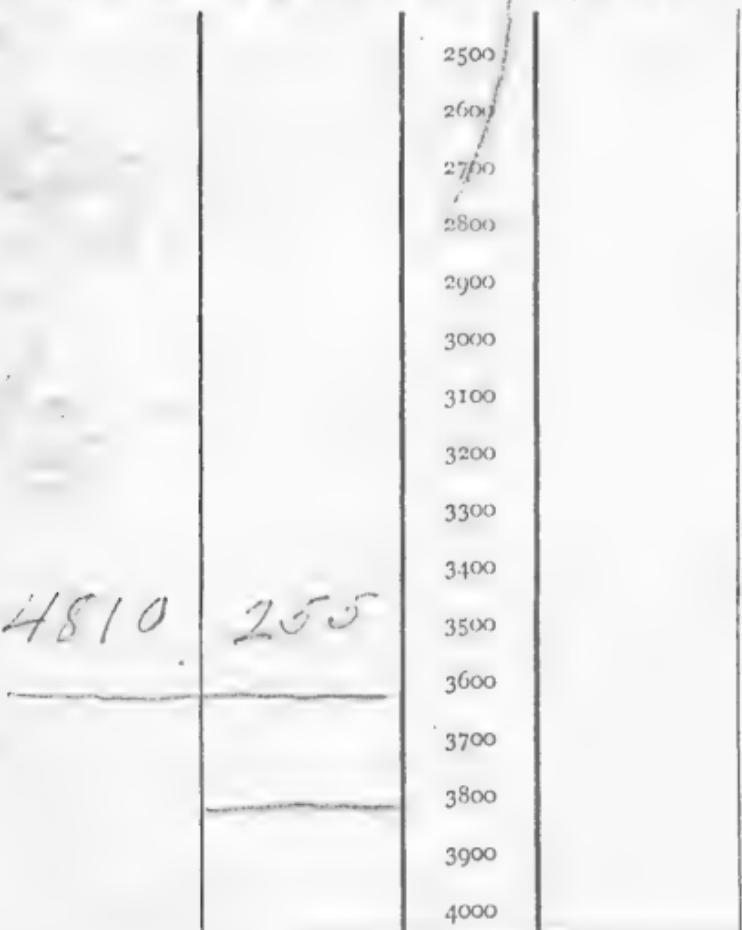
DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. 4635 Date July 15th
 Ship Machine # Reel. 200
 Turns 72 Cor. + 72 Depth 79 fms
 Shot or lead 60 lbs.
 Bottom vol. S. 300
 Bottom temperature 37.6°
 No. of thermometer 91235 Cor. + 0.1
 Corrected temperature 37.6
 Air 77 Surface 77 Drift
 Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
115.34.05	47.10	0		
35.10	47.15	100		
35.50	47.05	200		
35.45	46.95	300		
57.40	47.00	400		
56.30	46.95	500		
39.30	47.00	600		
40.30	47.05	700		
40.51	47.10	221		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

K. 1000 fms. 85° 10' N. 30° 5' W.



SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. 4166 b 2-11

Date

Machine.

Reel

Turns 46

Cor. +

Depth

Shol or lead

Bottom

Bottom temperature

No. of thermometer

Cor

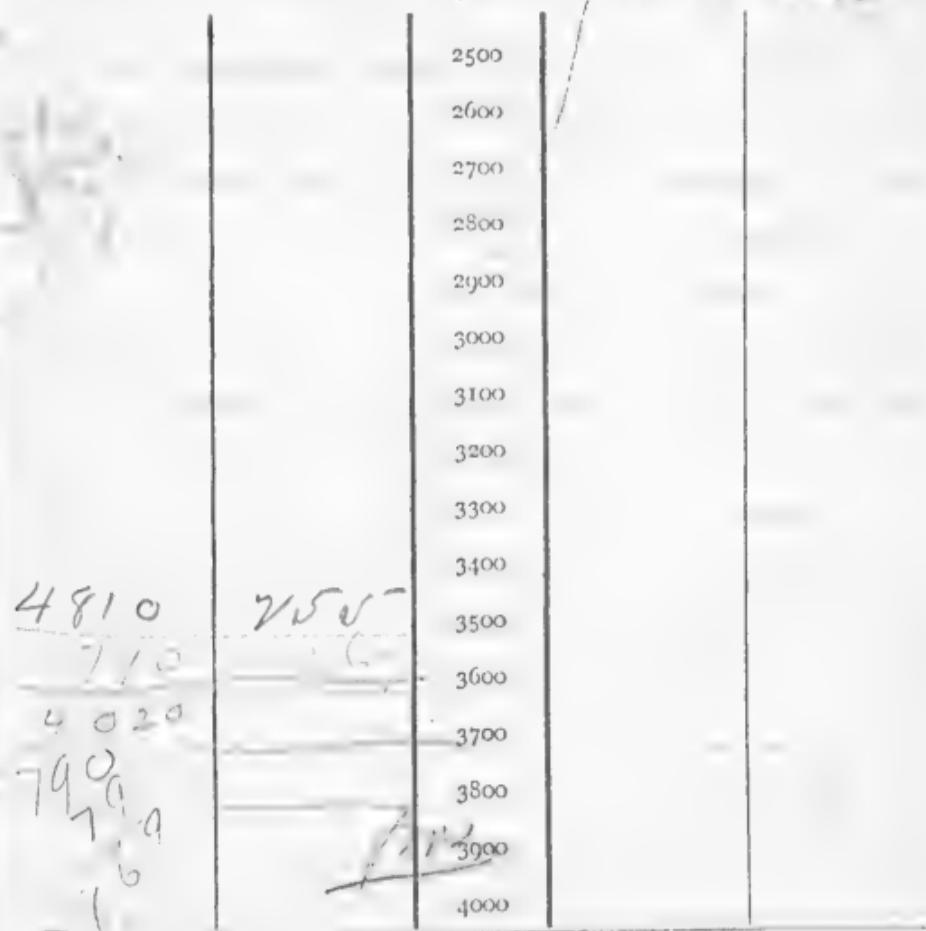
Corrected temperature

Air 74 Surface Drift

Treatment of disease

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0		
21.40	21.10	100		
21.20	21.00	200		
21.10	21.70	300		
21.10	21.70	400		
21.10	21.70	500		
	30.00	600		
	29.70	700		
	29.70	800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Ka Lae Point, 860° F. 77, 320'



SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. 1000

Date 15. 11. 07

Machine. Reel.

Turns 1175 Cor. + 110 Depth 1-30

Shot or lead 60

Bottom 1. S. D. 65.2

Bottom temperature 52

No. of thermometer 90235

Cor.

Corrected temperature 51

Air 16 Surface 77 Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
1175.10	1175.00	0		
		100		
1175.50	1175.00	200		
		300		
1175.70	1175.00	400		
		500		
1175.40	1175.00	600		
		700		
1175.30	1175.00	800		
		900		
1175.10	1175.00	1000		
		1100		
1175.40	1175.00	1200		
1175.10	1175.00	1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

4810 2550 35.0'

		2500	
		2600	
		2700	
		2800	
		2900	
		3000	
		3100	
		3200	
		3300	
		3400	
4810	2550	3500	
1170	11	3600	
3635	11	3700	
	11	3800	
	11	3900	
		4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

P. & T. 8.

No. 1008 Date 10/14/1907

Machine. Reel.

Turns 1318 Cor. + 121 Depth 1439

Shot or lead

Bottom rec. 2. 9. 1

Bottom temperature 35.2

No. of thermometer 823.5 Cor. + 0.1

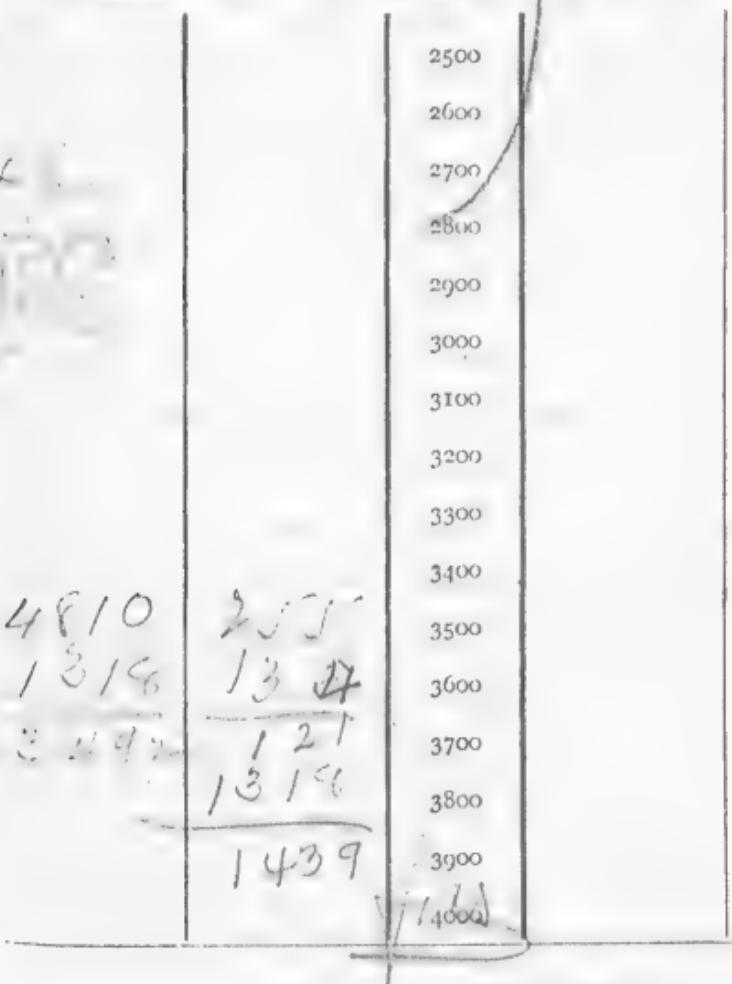
Corrected temperature 35.3

Air Surface Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
3. 17. 3	3. 17. 3	0		
30. 5	40. 5	100		
21. 40	31. 40	200		
22. 30	22. 30	300		
13. 20	23. 20	400		
21. 10	42. 10	500		
25. 10	41. 10	600		
22. 10	43. 10	700		
21. 10	39. 10	800		
21. 20	36. 20	900		
21. 20	37. 20	1000		
26. 20	38. 20	1100		
21. 20	35. 20	1200		
21. 20	34. 20	1300		
2. 32. 70	3. 34. 70	1318		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

N. Far Point, 862° 45' 77 416 70



SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. H. 4539. Date 15 July 22
 Machine / Reel. Heavy
 Turns (32 Cor. + 58 Depth 640 fms.
 Shot or lead 35 lbs.
 Bottom 10 fms.
 Bottom temperature 38.7
 No. of thermometer 98235 Cor. +0.1
 Corrected temperature 38.8
 Air 78° - Surface 76° - Drift
 Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
5.22.20	5.26.20	0		
25.25	35.20	100		
25.20	34.25	200		
26.25	32.20	300		
27.10	32.30	400		
28.15	31.30	500		
5.27.15	5.30.40	582 600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Cape Kumukku, N. 34° 8', S. 7° 10'
17.26

		2500	
		2600	
		2700	
		2800	
		2900	
		3000	
		3100	
		3200	
		3300	
		3400	
		3500	
		3600	
4110	255	3700	
582		3800	
56		3900	
640		4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

~~107~~ P.L. = 5.8

No. 4540. Date 15 Feb '02.

Size of Machine. Reel.

Turns 505 Cor. + 50 Depth 555 fms

Shot or load 60 lbs

Bottom as Vol S. C. fms

Bottom temperature 39.5

No. of thermometer 982.3.11 Cor. + 0.1

Corrected temperature 39.6

Air 79. - Surface 76. - Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
6. 33.20	6.44.20	0		
34.20	42.20	100		
35.20	42.20	200		
36.10	41.25	300		
37.05	40.20	400		
6. 38.15	6.39.20	500		
38.15	(- x)	525		
		600		
		700		
x) 42.20		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Geophysical Log No. 10

		2500	
		2600	
		2700	
		2800	
		2900	
		3000	
		3100	
		3200	
		3300	
		3400	
		3500	
		3600	
4810	2.57	3700	
505		3800	
555		3900	
		4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. 507. Date 15 July 02.
 Machine Reel. Δ 1000
 Turns 715 Cor. + 72 Depth 770 fms.
 Shot or lead 60 lbs.
 Bottom on set 37.8°
 Bottom temperature 37.8°
 No. of thermometer 18235. Cor. + 0.1
 Corrected temperature 37.9
 Air 79. - Surface 76. - Drift
 Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
74.50	55.15	0		
75.00	57.15	100		
44.50	56.15	200		
45.50	55.15	300		
46.40	54.15	400		
47.40	53.10	500		
48.00	52.10	600		
49.50	51.10	700		
49.50	50.50	715 Bear		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

4810	255	2500		
11.2		2600		
590		2700		
		2800		
		2900		
		3000		
		3100		
		3200		
		3300		
		3400		
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

P.L. 15.3

607.

No. 31445 Date Aug 15th
 Dredge Machine # / Reel. 011
 Turns 76 Cor. + 76 Depth 336 fms
 Shot or lead 60 lbs.
 Bottom sea vol 8.5 fms
 Bottom temperature 35.7
 No. of thermometer 35355 Cor. - 0.1
 Corrected temperature 35.8
 Air 75 Surface 76 Drift
 Trawl or dredge

SOUNDING WIRE.

TURNS.

DREDGE ROPE.

DOWN.

UP.

DOWN.

UP.

72146	39.15	0		
72145	38.10	100		
72144	37.05	200		
72143	36.00	300		
72142	35.85	400		
72141	34.00	500		
72140	33.00	600		
72139	32 =	700		
72138	31.20	800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

4850	153	2500	
		2600	
		2700	
		2800	
		2900	
		3000	
		3100	
		3200	
		3300	
		3400	
		3500	
		3600	
		3700	
		3800	
836		3900	
		4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

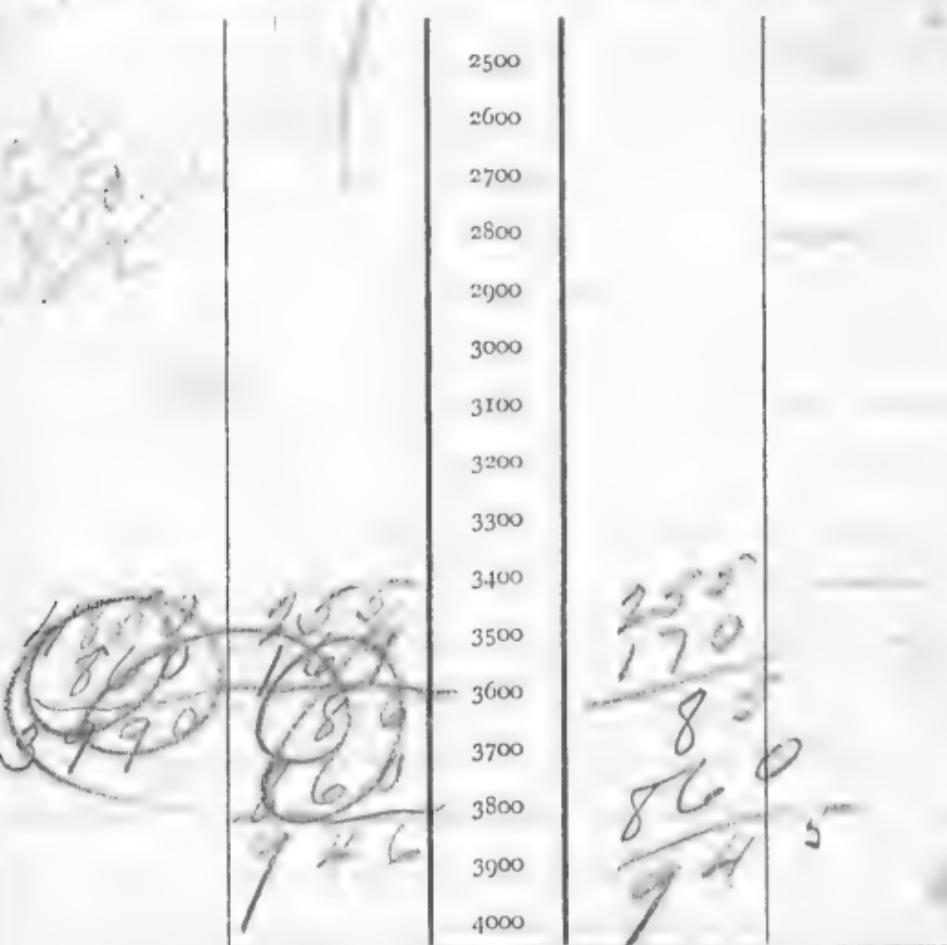
P.L 18.8

507.

No. 344523 Date July 16
 Dredge Machine #1 Reel. 1000
 Turns 860 Cor. + 85 Depth 140 fms
 Shot or lead 60 lbs.
 Bottom 100 fms
 Bottom temperature 36.1
 No. of thermometer 98235 Cor. + 0.1
 Corrected temperature 36.0
 Air 75 Surface 76 Drift
 Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
10.00	50.50	0		
	49.50	100		
	48.50	200		
34.00	47.40	300		
35.30	46.35	400		
36.30	45.30	500		
37.20	44.30	600		
38.30	43.15	700		
39.20	42.20	800		
40.20	41.40	900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Cap. Kamakura 37° 21' 12.5



SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				2
50				
100				
200		4810 860 39.5		
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

P.D. 23.8

507.

No. 11324 Date 16 Aug 1902
 Apparatus Machine. / Reel. 165 ft
 Turns 1625 Cor. + 166 Depth 1751 fms
 Shot or lead 60 lb
 Bottom 10 fms
 Bottom temperature 57°
 No. of thermometer 98734 Cor. 1.1
 Corrected temperature 38.1
 Air 78 Surface 76 Drift
 Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
12.07.40	12.60.10	0		
04.00	4.40	100		
04.40	47.00	200		
05.50	16.00	300		
06.40	4.40	400		
8.10	4.10	500		
9.40	412.10	600		
09.40	118.50	700		
10.40	17.40	800		
11.40	38.10	900		
12.40	36.40	1000		
13.40	37.10	1100		
14.40	37.40	1200		
15.40	32.40	1300		
17.40	30.40	1400		
17.40	39.10	1500		
18.30	27.00	1600		
20.40	32.30	1605		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Cape Kumukalii, 846° N., 103°

81°
17.8°
20.6°

		2500	
		2600	
		2700	
		2800	
		2900	
		3000	
		3100	
		3200	
		3300	
		3400	
		3500	
		3600	
		3700	
		3800	
		3900	
		4000	
18/10/23	20.3		
1625	16.9		
31.8.5	14.6		
	16.2.5		
	17.5.1		

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

P.L. 28.8

No. 1555 Date 16 Nov 1907
 Machine. Reel. No. 6
 Turns 856 Cor. + 164 Depth 2019 fms.
 Shot or lead 60 lbs
 Bottom No specimen
 Bottom temperature 35.6
 No. of thermometer 98.730 Cor. - 0.1
 Corrected temperature 35.7
 Air 77 Surface 77 Drift
 Trawl or dredge

OUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
10.6	16.36	1700		
11.10	16.30	1800		
11.40	16.50	1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Cape Horn, 8° 23' S. 67° 11' W. 11/26

		2500	
		2600	
		2700	
		2800	
		2900	
		3000	
		3100	
		3200	
		3300	
		3400	
		3500	
		3600	
		3700	
		3800	
		3900	
		4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. 44546

Date 10/11/11

Machine.

Reel. 1400 ft.

Turns 1387 Cor. + 127 Depth 156 fms.

Shot or lead 60 lbs

Bottom

Bottom temperature 35.0

No. of thermometer 46235 Cor. + 1

Corrected temperature 35.1

Air 77. - Surface 76. - Drift

Trawl or dredge

SOUNDING WIRE.

TURNS.

DREDGE ROPE.

UP.

DOWN.	UP.	TURNS.
3.45.20	4.30.20	0
3.44.15	4.30.20	100
3.43.10	4.20.20	200
3.42.05	4.10.20	300
3.41.00	4.00.20	400
3.40.00	3.90.20	500
3.39.00	3.80.20	600
3.38.00	3.70.20	700
3.37.00	3.60.20	800
3.36.00	3.50.20	900
3.35.00	3.40.20	1000
3.34.00	3.30.20	1100
3.33.00	3.20.20	1200
3.32.00	3.10.20	1300
4.00.20	4.00.20	1300
		1400
		1500
		1600
		1700
		1800
		1900
		2000
		2100
		2200
		2300
		2400

4810	211	2500
1384	128	2600
<u>3426</u>	<u>127</u>	2700
		2800
		2900
		3000
		3100
		3200
		3300
		3400
		3500
		3600
		3700
		3800
		3900
		4000
4811		

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

R.L. = 41.8

No.

H. 45117

Date

11 Feb. '02

Cir. 500

Machine.

Recl. (Nobs.)

Turns 925 Cor. + 90 (Depth 1015 fms.)

Shot or lead 60 lbs.

Bottom for vol. & cor.

Bottom temperature 36.2

No. of thermometer 98235 Cor. + 0.1

Corrected temperature 36.3

Air 78. - Surface 77. - Drift

Trawl or dredge.

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
55.5	6.15.45	0		
56.20	12.25	100		
57.50	11.35	200		
58.15	10.20	300		
59.0	08.45	400		
59.25	08.15	500		
59.25	07.10	600		
59.25	05.75	700		
60.15	04.40	800		
61.15	02.15	900		
61.01.0	6.02.00	1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Cape Kumukahi 14° 30' S., 175° 10' E.

		2500	
		2600	
		2700	
		2800	
		2900	
		3000	
		3100	
		3200	
		3300	
		3400	
		3500	
		3600	
		3700	
		3800	
		3900	
		4000	
4810 m.	255		
	164		
	912		
	925		
	1016		
3885			

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

P.L. = 53.1

No. 54053 Date 16 July '02.

Tanner Machine. — Reel.

Turns 18 Cor. + 1 Depth 29 fms.
Shot or lead 26 lbs

Bottom

Bottom temperature

No. of thermometer 1 Cor.

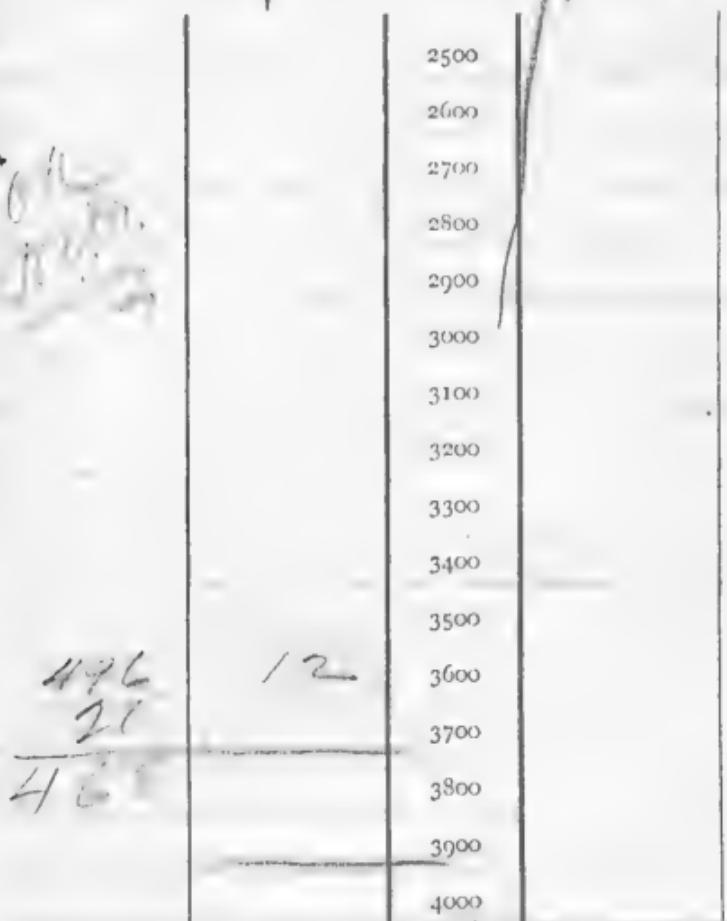
Corrected temperature

Air 81 Surface 75 Drift 1.10

Trawl or dredge 5 fms. in fine gauge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
7.47.00	12.50	42	7.47.1	11.30
47.20	47.25	100	56.40	8-20.05
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Alia Point Light (Hilo Bay), N 40° W., 5 1/10'



SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25		Jangles =		
50	2 0/0	Acropora; Hydrozoa attached		
100	+	to coral; fish sp. Corall; fish sp.		
200		fish sp.; coral; fish sp.		
300		fish sp.; fish numerous; fish numerous;		
400		fish numerous; fish numerous;		
500				
600				
700				
800				
900				
1000				

REMARKS:

No. 5 or 4054		Date 10 May 02
Machine.	Reel.	
Turns 25 Cor. + 1	Depth 100 fms	
Shot or lead 26 lbs.		
Bottom on Co S. Island		
Bottom temperature 79°		
No. of thermometer Nine	Cor.	
Corrected temperature		{ N 76.7°
Air 55° Surface 74°	Drift 1° 50'	
Travel or dredge 8 fms		
SOUNDING WIRE.		
DOWN.	UP.	TURNS.
5-3.30	24.30	0
		100
		200
		300
		400
		500
		600
		700
		800
		900
		1000
		1100
		1200
		1300
		1400
		1500
		1600
		1700
		1800
		1900
		2000
		2100
		2200
		2300
		2400
DREDGE ROPE.		
DOWN.	UP.	
5-3.30	53.30	
30.30	51.25	

Alia Point light. N $8^{\circ} 30' N.$, 4 $\frac{4}{10}$

496	12	2500	
		2600	
		2700	
		2800	
		2900	
		3000	
		3100	
		3200	
		3300	
		3400	
		3500	
		3600	
		3700	
		3800	
		3900	
		4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25	Tau alfa -			
50	1 alpha, 1 gamma;			
100	2 beta, 1 gamma;			
200	2 min. 10, 2 alphas;			
300	1 alpha, 1 beta, 1 gamma;			
400	1 gamma; 1 alpha, 1 min. 10;			
500				
600				
700				
800				
900				
1000				

REMARKS:

5' 40:5 Date July 16th
Tanner Machine. Reel.

Turns 48 Cor. + 2 Depth 53 ft

Shoal or lead 26 m.

Bottom for guy 350

Bottom temperature 76

No. of thermometer None Cor.

Corrected temperature 76 (J. 10th)

Air Surface 76 Drift 1.0

Trawl or dredge 1.0000

SOUNDING WIRE.		TURNS	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
5. 05.15	07.00	0	1.01.30	30.10
		100	04.40	26.40
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Alia Paint Light, N 20° W, 35° 10'

496	12	2500	
48		2600	
428		2700	
		2800	
		2900	
		3000	
		3100	
		3200	
		3300	
		3400	
		3500	
		3600	
		3700	
		3800	
		3900	
		4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25	Tau	also -		
50	5	Follows	5	5
100	6	Follows	6	6
200	7	Follows	7	7
300	8	Follows	8	8
400				
500				
600				
700				
800				
900				
1000				

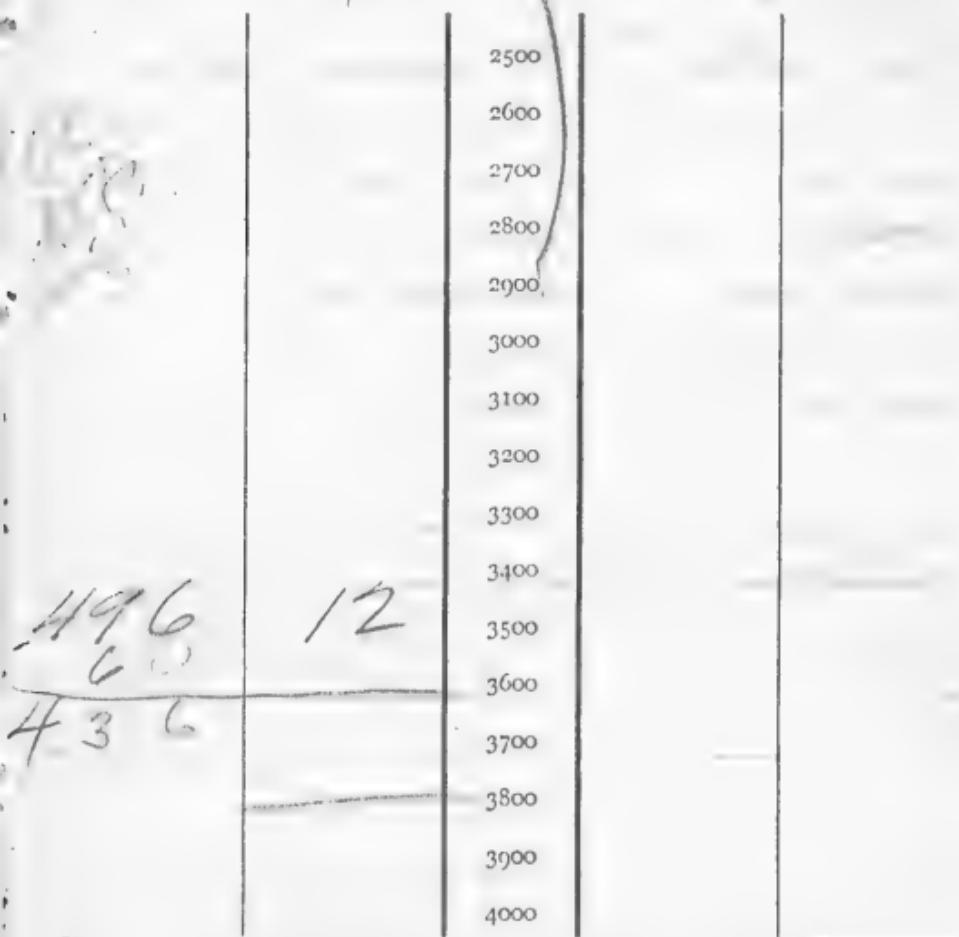
REMARKS:

507. *W. M. Brewster*

No. 5 Date 11 of 18th
Tanner Machine. Reel.
Turns 60 Cor. + 2 Depth 62 fms
Shot or lead 26 lbs.
Bottom 95 ° Coraline
Bottom temperature 76
No. of thermometer 70012 Cor.
Corrected temperature 76 5 N 10° S
Air 77 Surface 76 Drift 9 1/10
Trawl or dredge 8 fms

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
9.31.50	33.45	0	9.36.10	04.40.
32.30	32.35	100	37.30	10.00 30
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Alic Point Light, N $28^{\circ} 21'$, 2 $\frac{6}{10}$ '



SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25		Tangles evidently met		
50	61.2	60.1	No indications.	
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. 4057 Date July 10-32.

Machine. Reel.

Turns 74 Cor. + 3 Depth 77 fms.

Shot or lead 16 lbs

Bottom for gy 27 fm.

Bottom temperature

No. of thermometer 76 Cor.

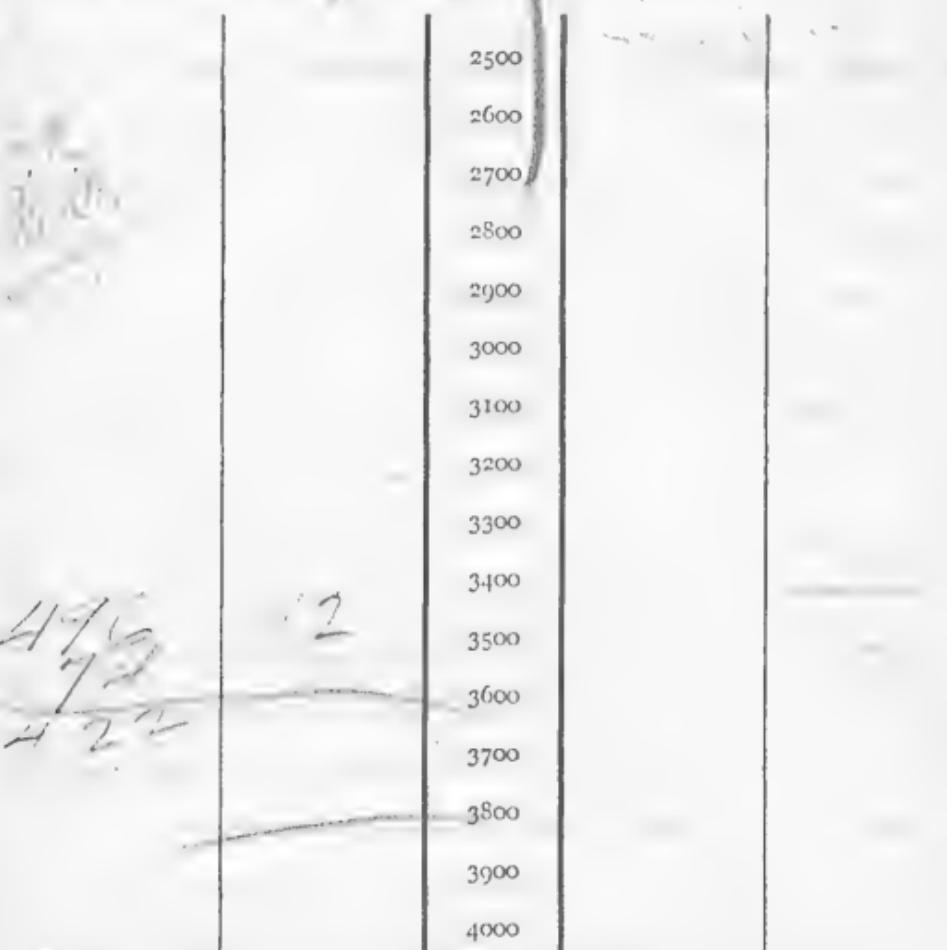
Corrected temperature (N 10.04)

Air 76 Surface 76 Drift 15/10

Trawl or dredge 8 fms.

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
10-06.20	08.20	0	10-09.40	45.20
07.10	37.10	100	13.70	
		125	14.10	41.10
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Point Light, N 40° 45' W., 2.0'



SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25	72	1		72
50	72	1		72
100	72	1		72
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. 4548 Date Aug 16th
 Janner Machine. Recl.
 Turns 72 Cor. + 3 Depth 76 fms
Shot or lead 26 lbs
 Bottom 60° & 70° salin
 Bottom temperature 70°
 No. of thermometer 2 Cor.
 Corrected temperature 70°
 Air 76 Surface 76 Drift
Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
10.17.25	49.30	0		
48.15	49.30	100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

136 12

		2500	
		2600	
		2700	
		2800	
		2900	
		3000	
		3100	
		3200	
		3300	
		3400	
		3500	
		3600	
		3700	
		3800	
		3900	
		4000	

SERIAL TEMPERATURES.

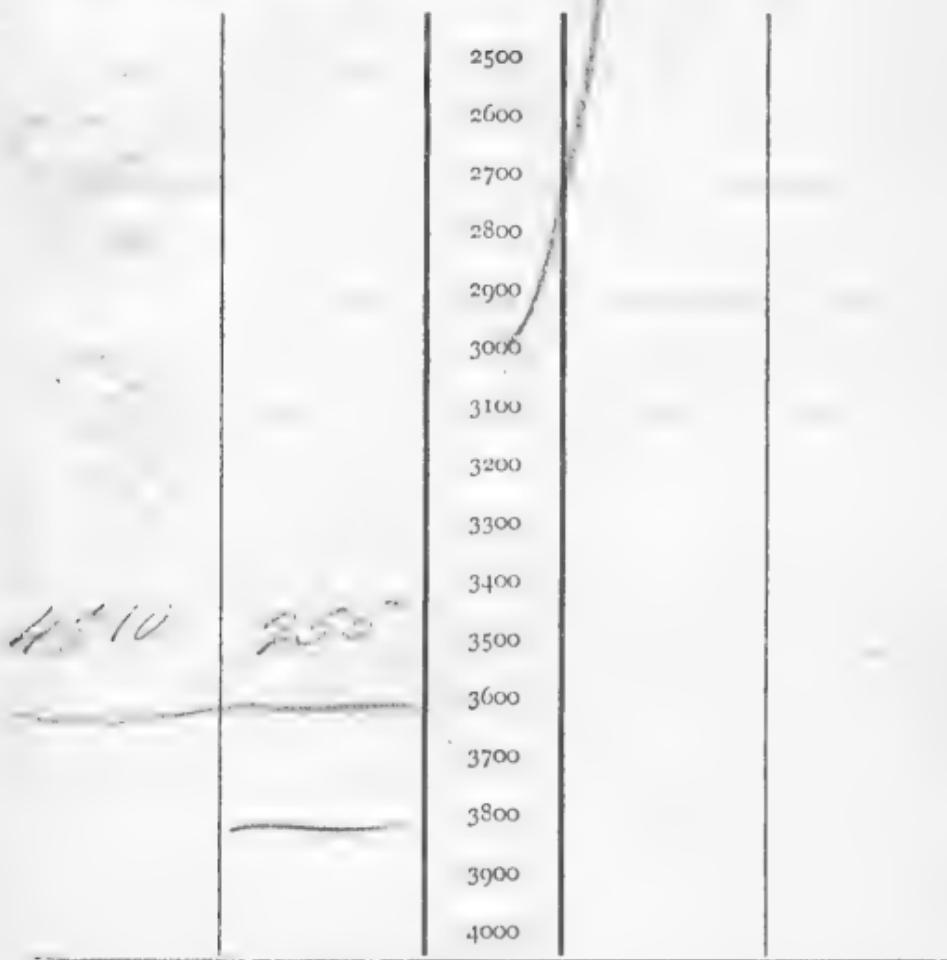
DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. 4649 Date 16 Aug '02.
 Machine # Reel. Name
 Turns 153 Cor. + 1 Depth 168 fms
 Shot or lead 36 lbs.
 Bottom No specimen - hard
 Bottom temperature
 No. of thermometer 95.2 35 - lost.
 Corrected temperature
 Air 78 Surface 76 Drift
 Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
11.45	19.10	0		
15.35	17.25	100		
16.05	16.30	200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Aliso Point Calif. March, 3 '70



SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

May have swum away when
had enough bottom.
Lives 36 ft. back. Ther-
malism # 98235. Small
head & strong body.

Feb. 17.

No. 100

Date 16 Feby 35.

Machine # / Reel. 7000

Turns 17 Cor. + 18 Depth 195 fms.

Shot or lead 36 lbs.

Bottom R.K.

Bottom temperature 49.8

No. of thermometer 75, 75 Cor.

Corrected temperature 49.8 8.8

Air Surface Drift 13.7

Trail or dredge 100 fms.

SOUNDING WIRE.

TURNS.

DREDGE ROPE.

DOWN.

UP.

DOWN.

UP.

1159.40		0	1210	11 1/2.00
		100	11.30	1.00
1159.40		177	15.50	1.00
		300	19.00	1.00
		350	20.00	1.00
		400	20.00	1.00
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Midnight light, N 87° W, 5° 10'

4510	255	2500	
		2600	
		2700	
		2800	
		2900	
		3000	
		3100	
		3200	
		3300	
		3400	
		3500	
		3600	
		3700	
		3800	
		3900	
		4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25	Tanglo-			
50	Locapana removed; little			
100	change; frequent 0.900 m;			
200	1/2 or 2 sp. of 0.900 m.			
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. 4660

Date 1/1/12

Machine

Reel

Hand

Turns 173

Cor. +

5

Depth

190 fms

Shoal or lead

Bottom

10 fms

10 fms

Bottom temperature

49.1

No. of thermometer 98238

Cor. 0

Corrected temperature

49.1

Air 81

Surface 77

Drift

Trawl or dredge

SOUNDING WIRE.

TURNS.

DREDGE ROPE.

DOWN.

UP.

DOWN.

UP.

12.46.10	12.50.0.	0
117.00	119.20	100
11.47.30	12.48.00	173
		200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

Ullia Point L. Lt. 88° 79' W 6° 10'

2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. 4050 Date 1914
 Skipper Machine Reel.
 Turns 765 Cor. + 76 Depth 271 fms
 Shot or lead 26
 Bottom Vol. 8.
 Bottom temperature 44
 No. of thermometer 98.23° Cor.
 Corrected temperature 97.0 (31.0)
 Air 3 Surface 17 Drift 10
 Trawl or dredge 17 1210 lbs.

SOUNDING WIRE.		TURNS	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
1. 7600	2. 50	0	1. 76.20	17.10
1. 77.50	2. 6.50	100	40.40	35.00
1. 78.50	2. 6.00	200	44.30	31.40
1. 79.40	1. 71.10	265	116.30	150.00
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Alki Point light, N 67° 15' W., 8 $\frac{4}{10}$ '

2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25	5 $\frac{1}{2}$	Blake	-	
50	5	few small	large	
100	boulders with	2 or 3 slender		
200	large all the	3 or 4 ophirians		
300	in cavities of	rocks -		
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. 1151 Date 1911
 Machine Reel
 Turns 173 Cor. + 17 Depth 192 fms
 Shot or lead 36
 Bottom 100 fms
 Bottom temperature 50
 No. of thermometer 98.3 Cor.
 Corrected temperature 50.2
 Air 83 Surface 77 Drift
 Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
2.01.20	1.01.11	0		
01.21	01.11	100		
1.02.20	2.01.11	173		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Blue Point Light, 36° 67' 18" W., 7 $\frac{3}{10}$

816
K. B.
175

175
190

2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. Dr. 106 Date 16 July 1902

U.S. Pat. No. 1,000,000 Machine. 1 Reel.

Turns 820 Cor. + 82 Depth 912 fms

Shot undervert 600 ft.

Bottom 1/2 mile S. Top

Bottom temperature

No. of thermometer 98238 - Cor.

Corrected temperature 16.5 (Wind)

Air : 80 - Surface 77 - Drift) 1

Travel of dredge 100

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
2. 40.20	2. 46.50	0	2. 01.40	5. 24.30
41.05	50.40	100	57.20	20.60
41.55	51.00	200	09-	17.30
42.10	51.50	300	12.20	-
42.50	52.00	400	16.30	10.60
44.20	52.50	500	20.00	07.00
45.25	53.40	600	25.30	5. 03.20
45.70	54.00	700	31.20	57.20
46.10	54.50	800	36.00	54.20
46.70	55.20	900	34-	46.20
		1000	38.00	45.20
		1100	41.00	41.20
		1200	44.00	35.50
		1300	47.00	32.15
		1400	50.00	27.20
		1500	53.00	22.10
		1600	4. 03.20	11.20.00
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

U.S. Point Fig. 3. N $70^{\circ}15'W$, 10 $^{\circ}27'N$

		2500	
		2600	
		2700	
		2800	
		2900	
		3000	
		3100	
		3200	
		3300	
		3400	
		3500	
1810	255	3600	255
830	164	3700	172
7980	51	3800	87
	62	3900	820
	71	4000	712

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25	5 $^{\circ}2$ Blake	-		
50	2	cor. 2000	2	2
100	5	cor. 5000	5	5
200	2	cor. 2000	2	2
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

1st depth 6m.
small white cocoyne (helio) (a)
in net.

No. A.Y. 4552. Date 16 July '02.

Siemens Machine & Reel, Navy

Turns 690 Cor. + 69 Depth 57 fms.

Shot or lead 60 lbs.

Bottom fuzzy rock, fr.

Bottom temperature 37.7

No. of thermometer 98238. Cor. 0

Corrected temperature 37.7

Air 79° - Surface 78° - Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
5. 27.40	5. 46.30	0		
28.40	40.25	100		
29.25	39.20	200		
30.10	38.30	300		
31.05	37.35	400		
31.55	36.55	500		
32.50	35.50	600		
5. 32.45	5. 34.50	690		
		700		
also mark end		800		
		900		
	10	1000		
Mr. 4060.		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Alt. Count Lant, 175° N. C.

		2500	
		2600	
		2700	
		2800	
		2900	
		3000	
		3100	
		3200	
		3300	
		3400	
		3500	
		3600	
4810	255	3700	
		3800	
	670 69	3900	
		4000	

SERIAL TEMPERATURES.

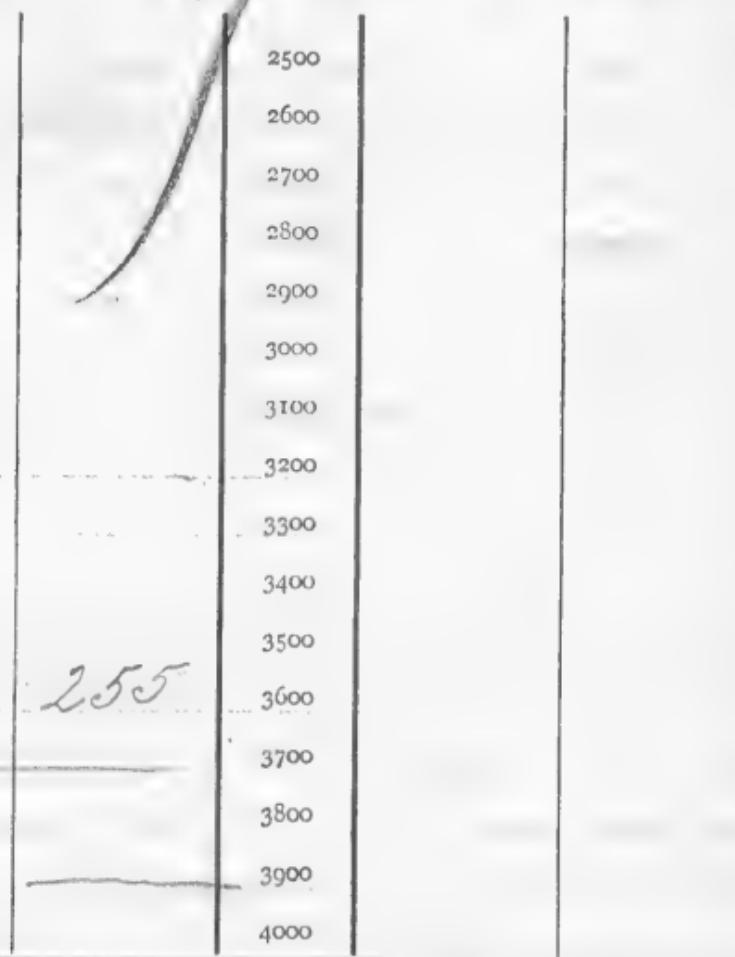
DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. 44-1553 Date July 17, 1902
 Dugout Machine! Reel. Name.
 Turns 164 Cor. + 16 Depth 180 fm
 Shot or load 60 lbs
 Bottom fm 87 fm.
 Bottom temperature 51.3°
 No. of thermometer 90 3.38 Cor. 0
 Corrected temperature 51.3
 Air 81 Surface 78 Drift
 Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
2-53.50	57.20	0		
54.35	56.15	100		
55.10	55.40	164 200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Alia Point Light, 81° 16' N., 8.0



SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. 4614 Date Aug 17
 Dredge Machine. 1 Reel.
 Turns 679 Cor. + 68 Depth 747 fms.
 Shot or lead 60 lbs
 Bottom for gy S. for 38°
 Bottom temperature 36.0
 No. of thermometer 71238 Cor. 0
 Corrected temperature 36.0
 Air 78 Surface 78 Drift
 Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
4.50	4.51.10	0		
44.25	57.10	100		
45.10	50.10	200		
46.05	55.00	300		
47.00	54.10	400		
48.10	53.10	500		
49.05	52.10	600		
50.00	51.30	679		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Alia Point Light, 69° N, 9° 10' W

Oil
100

677
6
747

4810

255

2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

C. d. 12.1

No. 4. 15 184 Date 17 July 1902
 Machine. Reel. V 8
 Turns 1779 Cor. + 119 Depth 1398 fms
 Shot 60
 Bottom 97 m. 352
 Bottom temperature 98.238 Cor. 0
 No. of thermometer 98.238 Cor. 0
 Corrected temperature 35.2
 Air 16 Surface 17 Drift
 Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
4.44.20	5.17.00	0		
46.00	10.00	100		
45.40	09.00	200		
46.40	08.00	300		
47.30	07.00	400		
48.30	06.00	500		
49.20	05.00	600		
50.20	04.00	700		
51.10	03.00	800		
52.10	02.00	900		
53.10	01.00	1000		
54.20	5.00.00	1100		
55.00	58.50	1200		
56.80	11.50.10	1279		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

		2500	
		2600	
		2700	
		2800	
		2900	
		3000	
		3100	
		3200	
		3300	
		3400	
		3500	
		3600	
		3700	
		3800	
		3900	
		4000	
45° 0	26.7		
127.7	15.6		
35.3	11.7		
	12.7		
	12.9		
	12.9		
	12.9		
	12.9		

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

P.L.

2.5

Sally

No.

4556

Date

17

July 1902

Sigsbee

Machine. 1

Reel.

Navy

Turns 175

Cor. +

17

Depth

92

Shot or lead

60

Bottom Fir + Volc S Sh,

49-

Bottom temperature

No. of thermometer 982 38 Cor. 0

Corrected temperature 49.1

Air 78 Surface 78 Drift

Trawl or dredge

SOUNDING WIRE.

TURNS.

DREDGE ROPE.

DOWN.

UP.

DOWN.

UP.

6,38.00	6,42.20	0	
6,38.17	6,41.29	100	
6,39.30	6,40.40	175	

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

Alia Point Light S 38° E., 18 $\frac{6}{10}$ '

~~4810 200~~

4810 200

17 $\frac{5}{17}$
19 $\frac{2}{2}$

2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

S. V. Sawyer
 No. 4557 H Date July 07
 September Machine. 1 Reel. 100
 Turns 898 Cor. + 88 Depth 986 fms
 Shot or lead 60 fms
 Bottom 50 fms Layer dry.
 Bottom temperature 36.0
 No. of thermometer 98238 Cor. 0
 Corrected temperature 36.0
 Air 78 Surface 77 Drift
 Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
7.16.15	7.31.00	0		
17.00	31.00	100		
17.50	31.50	200		
18.40	31.60	300		
19.30	29.40	400		
20.20	29.40	500		
21.10	28.30	600		
22.10	27.10	700		
23.10	26.10	800		
24.10	7.25.20	898		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Alia Point Light, 835° E., 21 $\frac{4}{10}$ '

OK
HCO.
is

4810 - 255
898 1678
3912 8986
 986